FGB INGRESS

TOOLS AND EQUIPMENT REQUIRED:
Spotlight
General Purpose Tape (2-inch)
4-inch Adjustable Wrench
APAS Hatch Tool
Alcohol Pads (for APAS Hatch Seal)
"Return to Houston" Bag
Two Air Sample Bottles

CRT — SPEC 66 ENVIRONMENT

1. When CABIN dP/dT < 0.01 (~15 min)

EPCS — FGB: ECLSS

FGB: ECLSS

√FGB Nod1 PEV - Op

2. INGRESS PA

FGB — Per **MCC-H**, open FGB PA APAS Hatch

APAS Hatch
1. Select 'ÐÀÁ Î ×ÅÅ' (WORKING) torque setting on hatch tool.
2. Insert tool in hatch socket.
3. Rotate 6 to 7 turns in direction of ' Î ÒÊÐ' (Open) arrow until it clicks.

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* If tool prematurely slips or does not engage          *
*    Select 'ÀÂÀÐÉÉ Í Î Å' (EMERGENCY) setting           *
*    on hatch tool.                                     *
*    Reattempt to open hatch.                           *
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4. Verify all latches are opened.
5. Remove tool.
6. Open Hatch.
7. Secure Hatch in open position using fixing device.
8. Inform **MCC-H** of PA Hatch opening complete.

PA Port Panel Ù Î -Ë Î

3. PA AND ICC LIGHTING ACTIVATION
1. 1-Ë1 (switch) → On (switch up)
2. √LEDs■ Ä1,2,3,4 (four) - Off

NOTE
Light switch 5-Ë1 is non-functional.

PA Port

4. READY OC Ï -4 FIRE EXTINGUISHER IN PA
1. Remove blue launch restraint bolts (four) from clamps (two) with common screwdriver. Tmpry stow clamps and bolts.

PA Ovhd

5. È Ï K-1 GAS MASK READINESS
1. Remove lock wire from cap and dispose in Trash Bag.

PA

6. INGRESS ICC
1. **On MCC-H GO**, open FGB PA-ICC Hatch
   Rotate hatch handle in direction of OPEN (OTÊPÜITO) position.
   Open Hatch until Hatch clicks and stops.

2. Inform **MCC-H**, PA-ICC Hatch is opened.

7. TAKE AIR SAMPLES OF FGB
   1. Collect air samples (two) from inside FGB using Air Sample Bottles

ICC Port 8. ICC LIGHTING ACTIVATION
Panel 414 1. 1-Ë1 (switch) → On (switch up)
Ù Î -Ë Î √LEDs ■ Ä1,2,3,4 (four) - Off
Panel 430 2. 1-Ë1 (switch) → On (switch up)
Ù Î -Ë Î √LEDs ■ Ä1,2,3,4 (four) - Off

NOTE
Light switch 5-Ë1 is non-functional on panels 430 and 414.

9. PA-ICC HATCH BULKHEAD RING INSTALLATION

Panel 402 1. Remove protective ring by unsecuring two restraint clips from launch restraint brackets using TBD wrench and unloosen two restraint straps.

NOTE
If time available, remove four launch restraint bolts from the two launch restraint brackets with common screwdriver. Dispose of blue launch restraint bolts and brackets in trash bag.

PA-ICC Hatch 2. Unfold protective ring and connect protective ring brackets on hatch hinge pin. Verify bracket mechanisms locked to hinge pin.

3. Secure bottom portion of protective ring alignment pin on socket of handle mechanism assembly. Rotate hatch handle in direction of close (ÇAÊPÜITO) position.

10. ALARM CONTROL PANEL ACTIVATION

ICC Panel TBD 1. POWER → On
√□ FUSE (Light on)
√LED ■ F1 - Off
√TTS/LOCAL - LOCAL
2. TEST pb - Push and Hold
√◘ - CL (blinking)
√□ All other lights and LEDs on.
√□ Siren activated.
3. TEST pb - Release
√□ FUSE Light on
√LED ■ F1 - Off
√■ All other lights and LEDs - Off
√Siren off

11. INSTALL AIR DUCTING

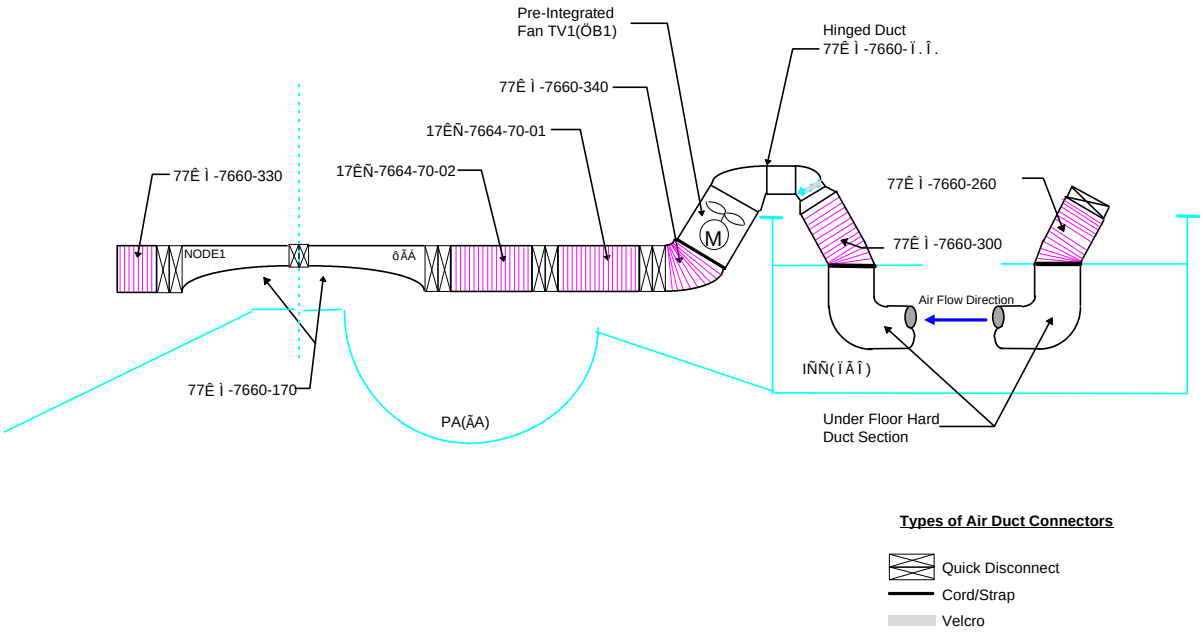

Figure 1.- Air duct connections.

PA	1.	Deploy duct rotator device.
ICC Panel 102	2.	Remove launch restraint tape from flexible duct (77KM-7660-300) and unfold.
PA	3.	Secure free-end of flexible air duct (77KM-7660-300) using Velcro on end of duct rotator device.
ICC Behind Panel 202	4.	Open TBD container (77KM-7660-280). Retrieve flexible duct(77KM-7660-340).
PA	5.	Using strap, connect flexible duct (77KM-7660-340) to flange of the TV1(ÖB1) fan.
Panel 202	6.	Unstow flexible air duct (77KC-7664-70-01).
PA	7.	Connect flexible air duct (77KC-7664-70-01) and connect with flexible air duct (77KM-7660-340).
Panel 202	8.	Unstow flexible air duct (77KC-7664-70-02).
PA	9.	Connect flexible air duct (77KC-7664-70-02) and connect with flexible air duct (77KC-7660-70-01).
ICC Panel 204	10.	Remove FGB rigid air duct (77KM-7660-170) by unsecuring two restraint clamps using TBD tool. Tmpry stow bolts.

ICC Panel 204
11. Remove Node 1 rigid air duct (77KM-7660-170) by unsecuring two restraint clamps using TBD tool.
Tmpry stow bolts.

PMA1-PA Hatch
12. Connect FGB rigid air duct and Node 1 rigid air duct.

PA
13. Connect free-end of flexible air duct (17KC-7664-70-02) to FGB rigid air duct.

ICC Behind Panel 202
14. Retrieve flexible air duct (77KM-7660-330).

PMA1
15. Connect free-end of flexible air duct (17KM-7660-330) to Node 1 rigid air duct.

16. Detach cap to PMA 1 hard duct inlet.
Stow cap.

17. Connect free-end of flexible air duct to PMA 1 duct inlet and secure with flat band coupling.

Panel 229
12. READY OCÏ-4 FIRE EXTINGUISHER IN ICC
1. Remove blue launch restraint bolts (four) from clamps (two) with common screwdriver.
Tmpry stow clamps and bolts.

Panel 230
13. È Ï K-1 GAS MASK READINESS IN ICC
1. Remove lock wire from cap and dispose in Trash Bag.

ACTIVATE NODE 1 - FGB INTERMODULE VENTILATION

EPCS
Node 1: ECLSS
NODE 1: ECLSS

sel Node_1_Aft_Port_IMV_Fan

14. √Close Cmd - Ena
sel RPC Commands
cmd Close **Execute**
√Position - Close

NODE 1: Aft Port IMV Fan
sel Fan Commands
cmd On **Execute**
√Stat - In Trans

NODE 1: Aft Port IMV Fan
Wait 15 seconds.
√Stat - On
√Spd, rpm = 7462 --- 9500